



PCT09

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/937,636

DATE: 05/14/2002  
TIME: 16:28:20

Input Set : A:\X-12652 Seqlist.txt  
Output Set: N:\CRF3\05142002\I937636.raw

ENTERED

3 <110> APPLICANT: Eric Wen Su  
4 Jian-Jun Wei  
6 <120> TITLE OF INVENTION: hOB-BP2h COMPOSITIONS, METHODS AND USES THEREOF  
8 <130> FILE REFERENCE: X12652  
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/937,636  
C--> 11 <141> CURRENT FILING DATE: 2002-03-05  
13 <160> NUMBER OF SEQ ID NOS: 5  
15 <170> SOFTWARE: PatentIn Ver. 2.1  
17 <210> SEQ ID NO: 1  
18 <211> LENGTH: 1536  
19 <212> TYPE: DNA  
20 <213> ORGANISM: Homo sapiens  
22 <400> SEQUENCE: 1  
23 atgctactgc cactgctgct gtcctcgctg ctggcggtt cccaggctat ggtatggaga 60  
24 ttctggatac gagtgcaagga gtcagtatgatg gtgcggagg gcctgtcat ctctgtgcc 120  
25 tgctcttctt cctacccccc acaggactgg acagggtcta ccccgagctta tggctactgg 180  
26 ttcaaaaggcag tgactgagac aaccaagggtt gtcctgtgg ccacaaaacca ccagagtcga 240  
27 gaggtggaaa tgagcacccg gggccgattt cagctcaactg gggatcccgc caaggggaac 300  
28 tgctccttgg tgatcagaga cgcgcagatg caggatgagt cacagtaactt ctttcgggtg 360  
29 gagagaggaa gctatgttag atataatttc atgaacgtat gttctttctt aaaaagtaaca 420  
30 gcccgtactc agaagctgtatgatc cccgagaccc tggagccccc gcagccgggtg 480  
31 acggcatatct gtgtgtttaa ctgggcctttt gaggaatgtc cacccttc tttctcctgg 540  
32 acgggggctg ccctcttc ccaagggaaacc aaaccaacga cctcccaactt ctcaatgtatc 600  
33 agcttcacgc ccagacccca ggaccacgac accgacactca ctcgtccatgt ggacttctcc 660  
34 agaaaagggtt tgagcgcaca gaggaccgtc cgactccgtt tggcttatgc ccccaagagac 720  
35 cttgttatca gcatttcacg tgacaacacg ccagatctc cagagaacct gagagtgtatg 780  
36 gttcccaag caaacaggac agtcctggaa aaccttgggaa acggcacgtc tctcccaactt 840  
37 ctggaggggcc aaaggctgtt cctggctctgt gtcaacacaca gcagcccccc agccaggctg 900  
38 agctggaccc agaggggaca gttctgagc ccctcccagc ctcagaccc cgggttcctg 960  
39 gagctgcctc gggttcaagt ggagcacgaa ggagagttca ctcgtccacgc tcggcacccca 1020  
40 ctgggctccc agcacgttc ttcagccctc tccgtgcact ataagaaggg actcatctca 1080  
41 acggcattct ccaatggagc gtttctggaa atcggcatca cggctttctt tttctctgc 1140  
42 ctggccctga tcatcatgaa gattctaccg aagagacgga ctcagacaga aaccccgagg 1200  
43 cccaggttct cccggcacag cacgatccgtt gattacatca atgtggtccc gacggctggc 1260  
44 cccctggctc agaagcggaa tcagaaagcc acaccaaaca gtcctcgac ccctttcca 1320  
45 ccaggtgctc cctcccaaga atcaaagaag aaccagaaaa agcagtatca gttgcccagt 1380  
46 ttcccagaac ccaaattatc cactcaagcc ccagaatccc aggagagcca agaggagctc 1440  
47 cattatgcca cgctcaactt cccaggcgatc agacccaggc ctgaggcccg gatgcccag 1500  
48 ggcacccagg cggattatgc agaagtcaag ttccaa 1536  
51 <210> SEQ ID NO: 2  
52 <211> LENGTH: 1917  
53 <212> TYPE: DNA  
54 <213> ORGANISM: Homo sapiens

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/937,636

DATE: 05/14/2002  
TIME: 16:28:20

Input Set : A:\X-12652 Seqlist.txt  
Output Set: N:\CRF3\05142002\I937636.raw

56 <400> SEQUENCE: 2  
57 atgctactgc cactgtctgt gtcctcgctg ctgggggggt cccaggctat ggatgggaga 60  
58 ttctggatac gagtgcagga gtcagtgtat gtgcgggagg gcctgtcat ctctgtgccc 120  
59 tgcttttctt cctaccgggg acaagactgg acagggtcta cccagctt tggctactgg 180  
60 ttcaaaagcag tgactgagac aaccaagggt gtcctgtgg ccacaaacca ccagagtgcg 240  
61 gaggtggaaa tgagcacccg gggccgattc cagctactg gggatcccgca aaggggaaac 300  
62 tgctccttgg tgatcagaga cgcgcagatg caggatgagt cacagtactt ctttcgggtg 360  
63 gagagaggaa gctatgtgag atataatttc atgaacgatg gttttttt aaaaagtaaca 420  
64 gtgttcagct tcacgcccac accccaggac cacaacaccc acctcacctg ccatgtggac 480  
65 ttctccagaa agggtgtgag cgcacagagg accgtccgac tccgtgtgc ctatgcccc 540  
66 agagacccctt ttagcagcat ttacgtgac aacacgcccag ccctggagcc ccagccccag 600  
67 ggaaatgtcc cataccttga agcccaaaaaa ggccagttcc tgccggctct ctgtgtgtct 660  
68 gacagccagc cccctgccac actgagctgg gtcctgcaga acagagtctt ctccctgtcc 720  
69 catccctggg gccccttagacc cctggggctg gagctccccg gggtaaggc tgggattca 780  
70 gggcgctaca cctgcccggc gggaaacagg ctggctccc agcagcggc cctgaccc 840  
71 tctgtgcagt atcctccaga gaaacctgaga gtgatgggtt cccaagcaaa caggacagtc 900  
72 ctggaaaacc ttggaaacgg cacgtctctc ccagtaactgg agggccaaag cctgtgcctg 960  
73 gtctgtgtca cacacagcag ccccccagcc aggctgagct ggacccagag gggacagggtt 1020  
74 ctgagccctc cccagccctc agaccccggt gtcctggagc tgcctcggt tcaagtggag 1080  
75 cacaaggag agttcacctg ccacgctcgg caccactgg gtcctccagca cgtctctctc 1140  
76 agcctctccg tgcactactc cccgaagctg ctggggccct ctcgtctctg ggaggctgag 1200  
77 ggtctgcact gcagctgctc ctcccaggcc agccccggccc ctcgtctgctg ctgggtggctt 1260  
78 ggggaggagc tgctggaggg gaaacagcggc caggactct tcgaggtcac cccagctca 1320  
79 gcccggccct gggccaaacag ctcctggagc ctccatggag ggctcagctc cggcctcagg 1380  
80 ctccgctgtg aggcttggaa cgtccatggg gcccagagtg gatccatctt gcagctgcca 1440  
81 gataagaagg gactcatctc aacggcattc tccaaacggag ctgttctggg aatccggcatc 1500  
82 acggctcttc tttccctctg ctcggccctg atcatcatga agattctacc gaagagacgg 1560  
83 actcagacag aaaccccgag gcccaggatc tcccgccaca gcacgatctt ggattacatc 1620  
84 aatgtggtcc cgacggctgg cccctggct cagaacggaa atcagaaagc cacaccaaacc 1680  
85 agtccctggaa cccctttcc accagggtct ccctccccag aatcaaagaa gaaccagaaaa 1740  
86 aagcgttactc agttgcccag ttcccagaa cccaaatcat ccactcaagc cccagaatcc 1800  
87 caggagagcc aagaggagct ccattatgccc acgctcaact tcccaggcgt cagacccagg 1860  
88 cctgaggccc ggatgccccaa gggcaccaggc gcggttattg cagaagtcaa gttccaa 1917  
91 <210> SEQ ID NO: 3  
92 <211> LENGTH: 512  
93 <212> TYPE: PRT  
94 <213> ORGANISM: Homo sapiens  
96 <400> SEQUENCE: 3  
97 Met Leu Leu Pro Leu Leu Leu Ser Ser Leu Leu Gly Gly Ser Gln Ala  
98 1 5 10 15  
99 Met Asp Gly Arg Phe Trp Ile Arg Val Gln Glu Ser Val Met Val Pro  
100 20 25 30  
101 Glu Gly Leu Cys Ile Ser Val Pro Cys Ser Phe Ser Tyr Pro Arg Gln  
102 35 40 45  
103 Asp Trp Thr Gly Ser Thr Pro Ala Tyr Gly Tyr Trp Phe Lys Ala Val  
104 50 55 60  
105 Thr Glu Thr Thr Lys Gly Ala Pro Val Ala Thr Asn His Gln Ser Arg  
106 65 70 75 80  
107 Glu Val Glu Met Ser Thr Arg Gly Arg Phe Gln Leu Thr Gly Asp Pro

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/937,636

DATE: 05/14/2002  
TIME: 16:28:20

Input Set : A:\X-12652 Seqlist.txt  
Output Set: N:\CRF3\05142002\I937636.raw

113	85	90	95	
115	Ala Lys Gly Asn Cys Ser Leu Val Ile Arg Asp Ala Gln Met Gln Asp			
116	100	105	110	
118	Glu Ser Gln Tyr Phe Phe Arg Val Glu Arg Gly Ser Tyr Val Arg Tyr			
119	115	120	125	
121	Asn Phe Met Asn Asp Gly Phe Phe Leu Lys Val Thr Ala Leu Thr Gln			
122	130	135	140	
124	Lys Pro Asp Val Tyr Ile Pro Glu Thr Leu Glu Pro Gly Gln Pro Val			
125	145	150	155	160
127	Thr Val Ile Cys Val Phe Asn Trp Ala Phe Glu Glu Cys Pro Pro Pro			
128	165	170	175	
130	Ser Phe Ser Trp Thr Gly Ala Ala Leu Ser Ser Gln Gly Thr Lys Pro			
131	180	185	190	
133	Thr Thr Ser His Phe Ser Val Leu Ser Phe Thr Pro Arg Pro Gln Asp			
134	195	200	205	
136	His Asp Thr Asp Leu Thr Cys His Val Asp Phe Ser Arg Lys Gly Val			
137	210	215	220	
139	Ser Ala Gln Arg Thr Val Arg Leu Arg Val Ala Tyr Ala Pro Arg Asp			
140	225	230	235	240
142	Leu Val Ile Ser Ile Ser Arg Asp Asn Thr Pro Asp Pro Pro Glu Asn			
143	245	250	255	
145	Leu Arg Val Met Val Ser Gln Ala Asn Arg Thr Val Leu Glu Asn Leu			
146	260	265	270	
148	Gly Asn Gly Thr Ser Leu Pro Val Leu Glu Gly Gln Ser Leu Cys Leu			
149	275	280	285	
151	Val Cys Val Thr His Ser Ser Pro Pro Ala Arg Leu Ser Trp Thr Gln			
152	290	295	300	
154	Arg Gly Gln Val Leu Ser Pro Ser Gln Pro Ser Asp Pro Gly Val Leu			
155	305	310	315	320
157	Glu Leu Pro Arg Val Gln Val Glu His Glu Gly Glu Phe Thr Cys His			
158	325	330	335	
160	Ala Arg His Pro Leu Gly Ser Gln His Val Ser Leu Ser Leu Ser Val			
161	340	345	350	
163	His Tyr Lys Lys Gly Leu Ile Ser Thr Ala Phe Ser Asn Gly Ala Phe			
164	355	360	365	
166	Leu Gly Ile Gly Ile Thr Ala Leu Leu Phe Leu Cys Leu Ala Leu Ile			
167	370	375	380	
169	Ile Met Lys Ile Leu Pro Lys Arg Arg Thr Gln Thr Glu Thr Pro Arg			
170	385	390	395	400
172	Pro Arg Phe Ser Arg His Ser Thr Ile Leu Asp Tyr Ile Asn Val Val			
173	405	410	415	
175	Pro Thr Ala Gly Pro Leu Ala Gln Lys Arg Asn Gln Lys Ala Thr Pro			
176	420	425	430	
178	Asn Ser Pro Arg Thr Pro Leu Pro Pro Gly Ala Pro Ser Pro Glu Ser			
179	435	440	445	
181	Lys Lys Asn Gln Lys Lys Gln Tyr Gln Leu Pro Ser Phe Pro Glu Pro			
182	450	455	460	
184	Lys Ser Ser Thr Gln Ala Pro Glu Ser Gln Glu Ser Gln Glu Glu Leu			
185	465	470	475	480

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/937,636

DATE: 05/14/2002  
TIME: 16:28:20

Input Set : A:\X-12652 Seqlist.txt  
Output Set: N:\CRF3\05142002\I937636.raw

187 His Tyr Ala Thr Leu Asn Phe Pro Gly Val Arg Pro Arg Pro Glu Ala  
188 485 490 495  
190 Arg Met Pro Lys Gly Thr Gln Ala Asp Tyr Ala Glu Val Lys Phe Gln  
191 500 505 510  
197 <210> SEQ ID NO: 4  
198 <211> LENGTH: 639  
199 <212> TYPE: PRT  
200 <213> ORGANISM: Homo sapiens  
202 <400> SEQUENCE: 4  
203 Met Leu Leu Pro Leu Leu Leu Ser Ser Leu Leu Gly Gly Ser Gln Ala  
204 1 5 10 15  
206 Met Asp Gly Arg Phe Trp Ile Arg Val Gln Glu Ser Val Met Val Pro  
207 20 25 30  
209 Glu Gly Leu Cys Ile Ser Val Pro Cys Ser Phe Ser Tyr Pro Arg Gln  
210 35 40 45  
212 Asp Trp Thr Gly Ser Thr Pro Ala Tyr Gly Tyr Trp Phe Lys Ala Val  
213 50 55 60  
215 Thr Glu Thr Thr Lys Gly Ala Pro Val Ala Thr Asn His Gln Ser Arg  
216 65 70 75 80  
218 Glu Val Glu Met Ser Thr Arg Gly Arg Phe Gln Leu Thr Gly Asp Pro  
219 85 90 95  
221 Ala Lys Gly Asn Cys Ser Leu Val Ile Arg Asp Ala Gln Met Gln Asp  
222 100 105 110  
224 Glu Ser Gln Tyr Phe Phe Arg Val Glu Arg Gly Ser Tyr Val Arg Tyr  
225 115 120 125  
227 Asn Phe Met Asn Asp Gly Phe Phe Leu Lys Val Thr Val Leu Ser Phe  
228 130 135 140  
230 Thr Pro Arg Pro Gln Asp His Asn Thr Asp Leu Thr Cys His Val Asp  
231 145 150 155 160  
233 Phe Ser Arg Lys Gly Val Ser Ala Gln Arg Thr Val Arg Leu Arg Val  
234 165 170 175  
236 Ala Tyr Ala Pro Arg Asp Leu Val Ile Ser Ile Ser Arg Asp Asn Thr  
237 180 185 190  
239 Pro Ala Leu Glu Pro Gln Pro Gln Gly Asn Val Pro Tyr Leu Glu Ala  
240 195 200 205  
242 Gln Lys Gly Gln Phe Leu Arg Leu Leu Cys Ala Ala Asp Ser Gln Pro  
243 210 215 220  
245 Pro Ala Thr Leu Ser Trp Val Leu Gln Asn Arg Val Leu Ser Ser Ser  
246 225 230 235 240  
248 His Pro Trp Gly Pro Arg Pro Leu Gly Leu Glu Leu Pro Gly Val Lys  
249 245 250 255  
251 Ala Gly Asp Ser Gly Arg Tyr Thr Cys Arg Ala Glu Asn Arg Leu Gly  
252 260 265 270  
254 Ser Gln Gln Arg Ala Leu Asp Leu Ser Val Gln Tyr Pro Pro Glu Asn  
255 275 280 285  
257 Leu Arg Val Met Val Ser Gln Ala Asn Arg Thr Val Leu Glu Asn Leu  
258 290 295 300  
260 Gly Asn Gly Thr Ser Leu Pro Val Leu Glu Gly Gln Ser Leu Cys Leu  
261 305 310 315 320

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/937,636

DATE: 05/14/2002  
TIME: 16:28:20

Input Set : A:\X-12652 Seqlist.txt  
Output Set: N:\CRF3\05142002\I937636.raw

263 Val Cys Val Thr His Ser Ser Pro Pro Ala Arg Leu Ser Trp Thr Gln  
264 325 330 335  
266 Arg Gly Gln Val Leu Ser Pro Ser Gln Pro Ser Asp Pro Gly Val Leu  
267 340 345 350  
269 Glu Leu Pro Arg Val Gln Val Glu His Glu Gly Glu Phe Thr Cys His  
270 355 360 365  
272 Ala Arg His Pro Leu Gly Ser Gln His Val Ser Leu Ser Leu Ser Val  
273 370 375 380  
275 His Tyr Ser Pro Lys Leu Leu Gly Pro Ser Cys Ser Trp Glu Ala Glu  
276 385 390 395 400  
278 Gly Leu His Cys Ser Cys Ser Ser Gln Ala Ser Pro Ala Pro Ser Leu  
279 405 410 415  
281 Arg Trp Trp Leu Gly Glu Glu Leu Glu Gly Asn Ser Ser Gln Asp  
282 420 425 430  
284 Ser Phe Glu Val Thr Pro Ser Ser Ala Gly Pro Trp Ala Asn Ser Ser  
285 435 440 445  
287 Leu Ser Leu His Gly Gly Leu Ser Ser Gly Leu Arg Leu Arg Cys Glu  
288 450 455 460  
290 Ala Trp Asn Val His Gly Ala Gln Ser Gly Ser Ile Leu Gln Leu Pro  
291 465 470 475 480  
293 Asp Lys Lys Gly Leu Ile Ser Thr Ala Phe Ser Asn Gly Ala Phe Leu  
294 485 490 495  
296 Gly Ile Gly Ile Thr Ala Leu Leu Phe Leu Cys Leu Ala Leu Ile Ile  
297 500 505 510  
299 Met Lys Ile Leu Pro Lys Arg Arg Thr Gln Thr Glu Thr Pro Arg Pro  
300 515 520 525  
302 Arg Phe Ser Arg His Ser Thr Ile Leu Asp Tyr Ile Asn Val Val Pro  
303 530 535 540  
305 Thr Ala Gly Pro Leu Ala Gln Lys Arg Asn Gln Lys Ala Thr Pro Asn  
306 545 550 555 560  
308 Ser Pro Arg Thr Pro Leu Pro Pro Gly Ala Pro Ser Pro Glu Ser Lys  
309 565 570 575  
311 Lys Asn Gln Lys Gln Tyr Gln Leu Pro Ser Phe Pro Glu Pro Lys  
312 580 585 590  
314 Ser Ser Thr Gln Ala Pro Glu Ser Gln Glu Ser Gln Glu Glu Leu His  
315 595 600 605  
317 Tyr Ala Thr Leu Asn Phe Pro Gly Val Arg Pro Arg Pro Glu Ala Arg  
318 610 615 620  
320 Met Pro Lys Gly Thr Gln Ala Asp Tyr Ala Glu Val Lys Phe Gln  
321 625 630 635  
324 <210> SEQ ID NO: 5  
325 <211> LENGTH: 58  
326 <212> TYPE: PRT  
327 <213> ORGANISM: Homo sapiens  
329 <400> SEQUENCE: 5  
330 Ala Leu Thr Gln Lys Pro Asp Val Tyr Ile Pro Glu Thr Leu Glu Pro  
331 1 5 10 15  
333 Gly Gln Pro Val Thr Val Ile Cys Val Phe Asn Trp Ala Phe Glu Glu  
334 20 25 30

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/937,636

DATE: 05/14/2002

TIME: 16:28:21

Input Set : A:\X-12652 Seqlist.txt

Output Set: N:\CRF3\05142002\I937636.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date